

## QUICK REVIEW P.2

In Exercises 1 and 2, plot the two numbers on a number line. Then find the distance between them.

1.  $\sqrt{7}, \sqrt{2}$

2.  $-\frac{5}{3}, -\frac{9}{5}$

In Exercises 3 and 4, plot the real numbers on a number line.

3.  $-3, 4, 2.5, 0, -1.5$

4.  $-\frac{5}{2}, -\frac{1}{2}, \frac{2}{3}, 0, -1$

In Exercises 5 and 6, plot the points.

5.  $A(3, 5), B(-2, 4), C(3, 0), D(0, -3)$

6.  $A(-3, -5), B(2, -4), C(0, 5), D(-4, 0)$

In Exercises 7–10, use a calculator to evaluate the expression. Round your answer to two decimal places.

7.  $\frac{-17 + 28}{2}$

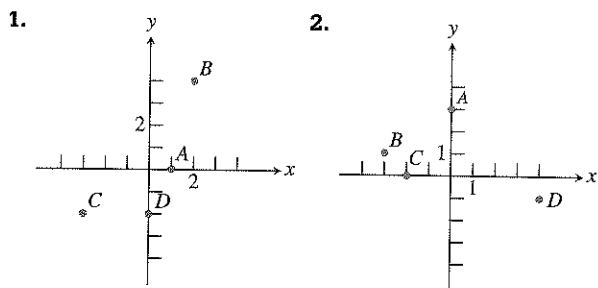
8.  $\sqrt{13^2 + 17^2}$

9.  $\sqrt{6^2 + 8^2}$

10.  $\sqrt{(17 - 3)^2 + (-4 - 8)^2}$

## SECTION P.2 EXERCISES

In Exercises 1 and 2, estimate the coordinates of the points.



In Exercises 3 and 4, name the quadrants containing the points.

3. (a)  $(2, 4)$  (b)  $(0, 3)$  (c)  $(-2, 3)$  (d)  $(-1, -4)$

4. (a)  $(\frac{1}{2}, \frac{3}{2})$  (b)  $(-2, 0)$  (c)  $(-1, -2)$  (d)  $(-\frac{3}{2}, -\frac{7}{3})$

In Exercises 5–8, evaluate the expression.

5.  $3 + |-3|$

6.  $2 - |-2|$

7.  $|(-2)3|$

8.  $\frac{-2}{|-2|}$

In Exercises 9 and 10, rewrite the expression without using absolute value symbols.

9.  $|\pi - 4|$

10.  $|\sqrt{5} - 5/2|$

In Exercises 11–18, find the distance between the points.

11.  $-9.3, 10.6$

12.  $-5, -17$

13.  $(-3, -1), (5, -1)$

14.  $(-4, -3), (1, 1)$

15.  $(0, 0), (3, 4)$

16.  $(-1, 2), (2, -3)$

17.  $(-2, 0), (5, 0)$

18.  $(0, -8), (0, -1)$

In Exercises 19–22, find the area and perimeter of the figure determined by the points.

19.  $(-5, 3), (0, -1), (4, 4)$

20.  $(-2, -2), (-2, 2), (2, 2), (2, -2)$

21.  $(-3, -1), (-1, 3), (7, 3), (5, -1)$

22.  $(-2, 1), (-2, 6), (4, 6), (4, 1)$

In Exercises 23–28, find the midpoint of the line segment with the given endpoints.

23.  $-9.3, 10.6$

24.  $-5, -17$

25.  $(-1, 3), (5, 9)$

26.  $(3, \sqrt{2}), (6, 2)$

27.  $(-7/3, 3/4), (5/3, -9/4)$

28.  $(5, -2), (-1, -4)$

In Exercises 29–34, draw a scatter plot of the data given in the table.

**29. U.S. Aluminum Imports** The total value  $y$  in billions of dollars of aluminum imported by the United States each year from 1997 to 2003 is given in the table. (Source: *U.S. Census Bureau, Statistical Abstract of the United States, 2001, 2004–2005.*)

$x$	1997	1998	1999	2000	2001	2002	2003
$y$	5.6	6.0	6.3	6.9	6.4	6.6	7.2

**30. U.S. Aluminum Exports** The total value  $y$  in billions of dollars of aluminum exported by the United States each year from 1997 to 2003 is given in the table. (Source: *U.S. Census Bureau, Statistical Abstract of the United States, 2001, 2004–2005.*)

$x$	1997	1998	1999	2000	2001	2002	2003
$y$	3.8	3.6	3.6	3.8	3.3	2.9	2.9